

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/830,706

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1  Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".

2  Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".

3  Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.

4  Misaligned Amino Acid Numbering      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5  Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6  Variable Length      Sequence(s)  contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.

7  PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

8  Skipped Sequences (OLD RULES)      Sequence(s)  missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9  Skipped Sequences (NEW RULES)      Sequence(s)  missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

10  Use of n's or Xaa's (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11  Use of "Artificial" (NEW RULES)      Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
Valid response is Artificial Sequence.

12  Use of <220>Feature (NEW RULES)      Sequence(s)  are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

13  PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

PCT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/830,706

DATE: 05/18/2001  
TIME: 10:56:57

Input Set : A:\M3-007PCT\_SEQ.txt  
Output Set: N:\CRF3\05182001\I830706.raw

Does Not Comply  
Corrected Diskette Needed

1/21/01

4 <110> APPLICANT: Medical & Biological Laboratories Co.,Ltd.  
7 <120> TITLE OF INVENTION: Thioredoxin reductase II  
10 <130> FILE REFERENCE: M3-007PCT  
OK, 12 <140> CURRENT APPLICATION NUMBER: US/09/830,706  
13 <141> CURRENT FILING DATE: 2001-04-27  
15 <150> PRIOR APPLICATION NUMBER: JP 1998-310422  
16 <151> PRIOR FILING DATE: 1998-10-30  
18 <160> NUMBER OF SEQ ID NOS: 37  
20 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORED SEQUENCES

451 <210> SEQ ID NO: 4  
452 <211> LENGTH: 492 (p.2)  
453 <212> TYPE: PRT  
454 <213> ORGANISM: Homo sapiens <220> (insert this mandatory  
455 <223> OTHER INFORMATION: Xaa(493) means selenosysteine.  
457 <400> SEQUENCE: 4  
458 Met Glu Asp Gln Ala Gly Gln Arg Asp Tyr Asp Leu Leu Val Val Gly  
459 1 5 10 15  
461 Gly Gly Ser Gly Gly Leu Ala Cys Ala Lys Glu Ala Ala Gln Leu Gly  
462 20 25 30  
464 Arg Lys Val Ala Val Val Asp Tyr Val Glu Pro Ser Pro Gln Gly Thr  
465 35 40 45  
467 Arg Trp Gly Leu Gly Gly Thr Cys Val Asn Val Gly Cys Ile Pro Lys  
468 50 55 60  
470 Lys Leu Met His Gln Ala Ala Leu Leu Gly Gly Leu Ile Gln Asp Ala  
471 65 70 75 80  
473 Pro Asn Tyr Gly Trp Glu Val Ala Gln Pro Val Pro His Asp Trp Arg  
474 85 90 95  
476 Lys Met Ala Glu Ala Val Gln Asn His Val Lys Ser Leu Asn Trp Gly  
477 100 105 110  
479 His Arg Val Gln Leu Gln Asp Arg Lys Val Lys Tyr Phe Asn Ile Lys  
480 115 120 125  
482 Ala Ser Phe Val Asp Glu His Thr Val Cys Gly Val Ala Lys Gly Gly  
483 130 135 140  
485 Lys Glu Ile Leu Leu Ser Ala Asp His Ile Ile Ala Thr Gly Gly  
486 145 150 155 160  
488 Arg Pro Arg Tyr Pro Thr His Ile Glu Gly Ala Leu Glu Tyr Gly Ile  
489 165 170 175  
491 Thr Ser Asp Asp Ile Phe Trp Leu Lys Glu Ser Pro Gly Lys Thr Leu  
492 180 185 190  
494 Val Val Gly Ala Ser Tyr Val Ala Leu Glu Cys Ala Gly Phe Leu Thr  
495 195 200 205  
497 Gly Ile Gly Leu Asp Thr Thr Ile Met Met Arg Ser Ile Pro Leu Arg  
498 210 215 220

numerical identifier whenever <221>, <222>, or <223> is shown

Please correct all sequences showing this error.)

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501 225 230 235 240  
503 His Gly Thr Arg Phe Leu Arg Gly Cys Ala Pro Ser Arg Val Arg Arg  
504 245 250 255  
506 Leu Pro Asp Gly Gln Leu Gln Val Thr Trp Glu Asp Ser Thr Thr Gly  
507 260 265 270  
509 Lys Glu Asp Thr Gly Thr Phe Asp Thr Val Leu Trp Ala Ile Gly Arg  
510 275 280 285  
512 Val Pro Asp Thr Arg Ser Leu Asn Leu Glu Lys Ala Gly Val Asp Thr  
513 290 295 300  
515 Ser Pro Asp Thr Gln Lys Ile Leu Val Asp Ser Arg Glu Ala Thr Ser  
516 305 310 315 320  
518 Val Pro His Ile Tyr Ala Ile Gly Asp Val Val Glu Gly Arg Pro Glu  
519 325 330 335  
521 Leu Thr Pro Thr Ala Ile Met Ala Gly Arg Leu Leu Val Gln Arg Leu  
522 340 345 350  
524 Phe Gly Gly Ser Ser Asp Leu Met Asp Tyr Asp Asn Val Pro Thr Thr  
525 355 360 365  
527 Val Phe Thr Pro Leu Glu Tyr Gly Cys Val Gly Leu Ser Glu Glu Glu  
528 370 375 380  
530 Ala Val Ala Arg His Gly Gln Glu His Val Glu Val Tyr His Ala His  
531 385 390 395 400  
533 Tyr Lys Pro Leu Glu Phe Thr Val Ala Gly Arg Asp Ala Ser Gln Cys  
534 405 410 415  
536 Tyr Val Lys Met Val Cys Leu Arg Glu Pro Pro Gln Leu Val Leu Gly  
537 420 425 430  
539 Leu His Phe Leu Gly Pro Asn Ala Gly Glu Val Thr Gln Gly Phe Ala  
540 435 440 445  
542 Leu Gly Ile Lys Cys Gly Ala Ser Tyr Ala Gln Val Met Arg Thr Val  
543 450 455 460  
545 Gly Ile His Pro Thr Cys Ser Glu Glu Val Val Lys Leu Arg Ile Ser  
546 465 470 475 480  
548 Lys Arg Ser Gly Leu Asp Pro Thr Val Thr Gly Cys Xaa Gly  
E--> 549 485 490  
934 <210> SEQ ID NO: 37  
935 <211> LENGTH: 66566  
936 <212> TYPE: DNA  
937 <213> ORGANISM: Homo sapiens P.13  
939 <400> SEQUENCE: 37  
940 atggcggcaa tggcggtggc gctgcgggaa ttaggaggc gcttcgggtg gcggacgcag 60  
942 gccgtggcg gcggggtgcg gggcgccggc cggggcgcag caggttagat ggggtcgaaa 120  
944 cgtccccgcg gtaggtgtcc gcgcggccgg ggtgtcctcg tgagggtgtc cgccgcggcgg 180  
946 tggccagggt gtcccccgtgg ggggtccccac gcgggggggtgt ccacataccg gccttcttgg 240  
948 ctagtcttgc tcaggagatcc gggctgtttc tagccacaag tagccccctt cccaggtggg 300  
950 gaaactgggg ctgggtgcct tgcataaggt cctgtgtgc tgactgcacc tgggtctcc 360  
952 cagagctggat atccccatgg caactacatgt tctgaagatg atgatatcccc acctccccgag 420  
954 gtcaccaggc accggcccca ctggccagac ttcccccaactt ctccccagac ccctagactc 480  
956 tagaggttag aggctgcaca gagcaatggg aggatacaca ctgcgttcc tggagcccc 540  
958 gaagaacagt taactaaatc aggacaataa tcataactga gcactcgaag cagaggctgg 600

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960	gtgtctggtc	actcaggaca	gttcaaggcct	catcctgtag	gacagactcc	cctagatccg	660
962	accagagcgc	caccatatct	gttatgtgtg	gccagttca	ttccatgcac	gacaacatgg	720
964	tccccccacca	tgcagggggc	ccctcgaccc	agccccctgg	atgcttgcga	cagcgagcag	780
966	ctctcccccac	aggcagtggag	tgtagagggg	tgtaaggacg	gggtcagggc	tccttcccgag	840
968	ggatgggggc	tatggggaggc	atggggctg	gccctctgcc	cgcgggtggac	tcgggaggga	900
970	gggctgactg	tgtgtgtgaa	tgggcagagt	tgggtctatg	gagggtttgg	gggtctcccg	960
972	gacggagggt	ggcccaacag	agttctggga	ggcagtcacc	acctcgtggc	cttgcgtgaga	1020
974	cctggAACCC	tcagccaggg	cactccatct	ttcaaagctt	cttggctgca	tgcgtcaggt	1080
976	ggccaagctc	aggaaggta	aatgcacccg	tgctggcgg	gtcccataaa	aggggattcg	1140
978	gcatcaaaag	gaggaaaaag	gttcaaaggg	catttatcat	ggggttcaga	atcacggatg	1200
980	tgagggggcgg	tagtggggac	aacagacaga	aaagcttccc	cttcccatac	tcacagtcca	1260
982	gacacggcaa	tagccaaatt	ccaaatttct	aggtattctg	gactcagaat	gggaatatac	1320
984	atacgagact	tagggggata	atgccttat	cttccttattt	taagggaaag	aacaaactga	1380
986	accttctatg	caaaaatagga	tgatgatcct	ggtcctccca	gtaagaaaata	aaataagtag	1440
988	tctccaggca	tccctttccg	ccagaggagc	aactgtttt	taaatagccc	ttcgtgccc	1500
990	agtcgttac	taaaccat	gagttgtttt	tttgggttt	ttttttttt	ttttttttt	1560
992	agacagtgtc	ttgcgtctgtc	gcccaagctg	gagtagctg	gtgcgtatctc	agtcactgc	1620
994	aagctccgccc	tcccggttgc	acgcattct	cctgcctcag	cctcccgagt	agctggact	1680
996	acaggcatct	gccaccacgc	ctggtaatt	ttttttgtat	tttttagtaga	gacgggattt	1740
998	cactgttata	gccaggatgg	tctcaatctc	ctgacccat	gatccacctg	ccttggcctc	1800
1000	ccaaagtgtc	gggattacag	gcatgagcca	ctgcgcccag	ccgagtcatt	tttaataact	1860
1002	atgcgtatgt	agttaaacata	atcatccca	aattttttttt	tttagatggc	cctcaaaatt	1920
1004	tttagatgtat	ggtttttctca	cagggttata	ttttagatgtat	gggttatctc	cttattactcc	1980
1006	tctttttat	tgtttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	2040
1008	tatagctaat	ctttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	2100
1010	agggtcatgt	ccaaaggcaca	gaggagggtt	tttataacc	atagtaacat	taaatgcagt	2160
1012	gccttctcct	ggctgagcgg	tgcaacggtc	atctgtat	ccaggcatcc	acacactatc	2220
1014	gttagtata	atttctgcag	gagcatccat	ccaggtgaga	ggtcgaataa	gtggaggaaa	2280
1016	aggcacataa	gccaataaag	aataattttt	tgttagcagg	aaatcagttt	aaggggaaac	2340
1018	tgttgagaca	aaaagtgtaa	ggaagataat	tattaaataa	aacccattttt	aagtggatc	2400
1020	cagtgtctgaa	ggagggaaag	aagaacagag	ggatgtttt	ttcaggctaa	tagaaatgtt	2460
1022	gagattttttta	ggtttgcgtt	gagaaaaaaga	taatttaggg	aagtgggatt	agtttagaggg	2520
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1040	tggaccgaga	ccgagtcgtgg	aaacaaaccc	catgtttcc	attatatgtt	gactggggagc	3060
1042	actgtaaaag	ttatgtggaa	tattttttt	agcccccaatt	tgtgcacgca	aatctctgc	3120
1044	ccgaagatta	atggggatgg	gcatgatata	aggctgaatt	gttccctttt	gaccatcagg	3180
1046	gccagtcgaa	gccaaagataa	atgtgtctg	gtgaacttct	tcaatccat	taacacccat	3240
1048	tagtttcatg	ttatgtggat	ttttttttttt	ttttttttttt	ttttttttttt	ttttttttttt	3300
1050	agaaacatca	gccccatgt	caacttaggg	cccaacccat	tttccctgaa	tgtgtatgg	3360
1052	gcaggttaggc	cattgttttag	aaattacatt	aatccaataa	gcccgtttttt	caccgctgg	3420
1054	gccccatccca	ggggccatgt	tcttacatcc	ttttttttttt	ttttttttttt	ttttttttttt	3480
1056	taatttgagca	atttgactcac	tggccggaaat	ggaaacacagga	actttggcag	acaccataag	3540

RAW SEQUENCE LISTING  
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Input Set : A:\M3-007PCT\_SEQ.txt  
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1062	aaaggccag	tgaccccat	ggggacaatt	aaaggcaaaag	aatttaggttag	taaattttaga	3720
1064	ggaatggta	tacagagatc	gaccgcctg	ctgcctactg	tggaggtaga	caaggattgt	3780
1066	actgagacag	aagaagaggc	tgggacccat	ctggattggc	tgtaggtaaa	ttttttgtg	3840
1068	ctggggctg	cgttggact	gcttgacgca	aaaacacaaac	attggctctga	gtccgaggtg	3900
1070	tcccatttga	tattgggccc	tggactggc	cttgcctcct	gtttccctgg	ttctgtggca	3960
1072	agggattttc	atctatatca	gactgagtgg	caagtacttg	cccaatgttt	acccttacga	4020
1074	caacgcaggc	aaacagttagc	aggagcattt	ggccgtgtt	gttgagccgg	cttggccgct	4080
1076	ttaagtttt	taacagtgt	gttttttgg	gtatgaccaa	gttggccaca	attatagcag	4140
1078	gctccaagaa	aagaatcagt	cgagccagtt	tggttccgt	gcttcatggc	cgtgcccac	4200
1080	agaatagctc	tgtgggtctc	cgatccaacg	ccttcacaag	cttaatata	tgaggcaac	4260
1082	acctcatgt	caggttaattt	ttgacgtagg	atgaaatgca	cggccatttt	acactcatgg	4320
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1086	gatttttcaa	cagcatcttg	taattttact	aaaaaatcaa	gatataattc	attgtgacc	4440
1088	tgttaacaa	tagtaaaaaga	aacagaagct	tggcctgggg	tgcgttaattt	atcccaagct	4500
1090	ctcatacaca	cctttttac	tgttccgtg	gtgagagcat	caaaggctaa	atgagcagta	4560
1092	gtatcagagt	aattatcgga	gcctgtgac	tgagcctgag	taatttggat	gccccatcagcc	4620
1094	cgatttagct	gagcctgcag	gcggccctcc	tctgaccacc	agttatggaa	ttgttaatgc	4680
1096	tgagatggag	ttagaacagc	ttttccaaa	aggtcgcagtt	ctataggaag	caaaatgacc	4740
1098	tcggtacaaa	gagtctgtaa	tacttttaa	catatggaga	agtaggaaaca	tactgagtac	4800
1100	aagcatcctt	gaattttttt	aaaaaggtaa	gattgagcgg	cgtatatacg	cacactgt	4860
1102	ccccttgcgc	attaggaggt	tccagcatga	ccgaataaagc	ccacgcctct	aatctacttg	4920
1104	tttgggggg	cgtataaaagc	atttgcataa	agtttcaaga	gcaggcacat	gagatagagt	4980
1106	cggtatagaa	gtgacaggaa	aagtatgtat	agataagaga	aactgagatt	gacgggggtcg	5040
1108	gactggata	agagtgtgag	aaaggggcat	tggggggaga	gaagaggcag	aagcatactg	5100
1110	gtgattactg	gcccgatcct	gcacaaccag	agtggcaggg	gtgtccctgc	atgaagaagg	5160
1112	gtacagagaa	gcagggttag	tggatggcaa	agtgaccgtt	tgagggacca	aaatgatagg	5220
1114	agggtgaggg	gctgtggtgg	atgggggagg	gcctgcagaa	ttacaggtaa	attttagttt	5280
1116	ggatggctcc	ggaggcaaaag	actgtaaaagg	tttggagagg	gaagagttag	catagatatg	5340
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1120	aataagatca	tcaggggggt	atgttaagcc	aaagtctactg	gagttagata	ttgaatcctc	5460
1122	agtatcgtca	ggtgggggag	gagtaggca	agggaggggc	tgagcagata	atgaaggccg	5520
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1136	cggagaatac	acagacaact	caccaatcg	tggggagcca	aacaaggcatt	tctgtggact	5940
1138	ggaccgatga	acatttctcc	gcacccatca	aaggaaatcg	ggtcccccaca	tgcacttagg	6000
1140	aaaaagaaaa	ccacgttggg	cgccagatat	tggggggaaacc	tgccctaat	atttcaacgt	6060
1142	acgttcttcc	tattttctgt	aagtgtcagc	cggtcgagaa	atgaagagaa	agagtacaaa	6120
1144	gaggaatttt	acagctgggc	tgctgggggt	gacatcacgt	atcggttagga	ccatgtatgcc	6180
1146	cacctgagcc	gcaaaaaccag	caagttttta	ttaaggattt	taaaaggggg	gggttggc	6240
1148	caataggggag	taggtcaca	agatcacatg	ttccaaagggg	caaaaggcag	agcaaagatc	6300
1150	acatgttctt	gaggaaacag	gacaaggggca	aaatcagaac	tcctgataag	ggctatgtt	6360
1152	cagctgtc	catattgtct	tgataaacat	cttaaacaac	ggaaaacatg	gtttaagagc	6420
1154	agagaaccag	tctgaccaca	aatttaccag	gacggagttt	tttcccccacc	ctaataagcc	6480

RAW SEQUENCE LISTING DATE: 05/18/2001  
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1158	caactcccaga	gtggccgttt	acagacctcc	ccccaggaat	gcatttcctt	tccagggtct	6600
1160	taatagtaat	attcctgtct	agaaaaagaa	tttagcgtata	tctctcctac	ttgcacgtcc	6660
1162	atttataaagc	tctctgcaag	aagaaaaata	tggctctttt	tgcctgaccc	cacaggcagt	6720
1164	cagaccttat	ggtgtcttc	gttccctaaa	aatcactgtt	attctgttct	tttcaaggt	6780
1166	gcgctgattt	catattgttc	aaacacacgt	tttacaatca	atttctacag	ttaacacaat	6840
1168	tatcacagtg	gtcctgaggt	gatgtatatt	atcagcttat	gaagataaca	ggattaagag	6900
1170	ataaaagacag	gcataagaaa	ttataaaaagt	attacttggg	ggcccaggcg	cggtggtca	6960
1172	tgcctgtat	cctagcactt	tgagaggccg	aggcagccat	atcacaaggt	gaggagatca	7020
1174	agaccatcct	ggctaacatg	gtgaaaaccct	gtctctcctg	aaagtacaaa	aaatttagcca	7080
1176	ggtgtgttg	cgggtgcctg	tagtcccagc	tactcaggag	gctgagacag	gagaatggtg	7140
1178	tgaacccagg	aggcggagct	tgcagtgagc	tgagattgtg	ccactgcacc	ccagcctggg	7200
1180	cgacagagag	agaatctgcc	tcaaaaaaaaaa	aaaaaaagaaaa	aaagtataaa	agattactt	7260
1182	gggaatttgc	aatgttcat	attgaaatga	aatcttact	atttatgttc	ctctgccacg	7320
1184	gctccagcca	gtccctccat	tcggggttcc	tgacttcctg	caacacaggt	gtgagccact	7380
1186	gtacccagac	taggggtgca	gtttttttt	ttttttttt	ctgagacaga	gtctcactct	7440
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 PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

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RAW SEQUENCE LISTING DATE: 05/18/2001  
 PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

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1362	gtgttaacca	ggatggctc	aatctcctga	cctcatgatc	caccacacc	ggcctcccaa	12720
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,706

DATE: 05/18/2001

TIME: 10:56:58

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/830,706

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1906	cggccccgag	gaccaacaagc	accccccac	cttagaggcc	gtggacttg	tctggccgg	29040
1908	aggcagccac	agcagctct	agagggggca	gtttgtttat	gcacagaggt	ggggctcagg	29100
1910	gtctgctgac	ttttaggt	gacactgtc	agttgttcaa	ggcagctgt	gcagacaggg	29160
1912	tcccagtgt	ccctcttct	ggcagctgg	ctcatgttgg	ttctgtttaa	agaaggccac	29220
1914	agccagctt	cagcagccca	ggggcattt	gttttctct	aggccccagg	cagagctgca	29280
1916	cgtgcattccg	caccaggag	cactgcacag	ggggccctggc	ctggccctgg	cctgtctgc	29340
1918	acctcacccgg	cagctgctga	cggcttttgc	ggctcacagg	ggatccagca	ggcgtctct	29400
1920	gtccttagga	ggcaggcagc	tcaggctgc	ttcgctctcc	ctgcccaccc	ctccccagggt	29460
1922	gtctgccaag	gtttgtctgc	gttttagtcc	ctttgtattgc	cacaccttcc	gtttttccct	29520
1924	gagtaaacc	gagaaattcc	tgactttatt	tttttttgc	agttggaaagc	ataaactgtt	29580
1926	tgagatccgc	ttccctccacc	agcacatctt	gttctcatgg	ccgcttaaggg	gacgttcacc	29640
1928	ctggccctcc	cacctgtt	ggcccccctc	ttcagggtac	ctgtatgtt	tctgggctca	29700
1930	gagccaccc	ggggccagcc	tgcagatgt	gaagtcgc	ctggcttcag	ccaggtgccc	29760
1932	tcagagctgc	ccctcagcc	ctgccccac	cagctgtgg	cacttacccc	ctgtgcctcc	29820
1934	tctccctctgg	ctggccttgc	aggccacccc	tgccgcgcag	acacacatgt	gctctgtgg	29880
1936	ccctgatttgc	ctgacctgtt	ctctccctctc	ttagtttgg	tcccccagaa	29940	
1938	cccaagggtt	gtccctggg	gtcgtatgc	cctgtctgtt	tgtatgtgt	gtccagaacc	30000

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/830,706

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Input Set : A:\M3-007PCT\_SEQ.txt  
Output Set: N:\CRF3\05182001\I830706.raw

1940	cgggcagact	tgaggggtcc	cagctgtctg	cctgttatggc	ccctgcagtt	gctgtaccca	30060	
1942	cctcaggccc	tgtatcctgc	tctgaaccag	ggtcaagggg	agggtcctgg	ggaacagagg	30120	
1944	gaaaaggtagc	cctgcgaggg	caccggacc	tggagtgcag	cagcttagat	gcagacaggc	30180	
1946	caccctgcgc	cccaaagagg	ccacagcctg	cagacaagga	ctggcagcag	ggaagccctg	30240	
1948	tgcatgtgt	ccctggaaa	gctctgctt	attctgcaa	gctggcattcc	tctttaagga	30300	
1950	agcccttagga	caggccaaat	ggagctctt	tccaagggg	catttctgtc	ttgacagatc	30360	
1952	gaaggtgcct	tgaaatatgg	aatacaagt	gatgacatct	tctggctgaa	ggaatccct	30420	
1954	gaaaaaacgt	aaggcctgcg	cgtgcttgg	ggggctctt	ttttgttac	cagagtgagc	30480	
1956	actggaccct	tagagctgt	gctggtgct	ggctcctgg	gctttcttc	cgttttaccc	30540	
1958	aaaagaagga	aaaaaggcc	gttatttgg	gccaggtgt	gtggctcat	cttggtagcc	30600	
1960	tagactttg	ggagactgag	cgggaggatt	gcttgaggcc	aggagttcga	gatcagcatc	30660	
1962	agcctggca	atatagtgag	acctctactc	tacaaaaatc	tgttttgg	tttttttgg	30720	
1964	ctttttttt	l	aygtggagt	cicactctgt	cgcccagact	ggagtgcata	ggcccaatct	30780
1966	tggctca	caatccctgc	ctcccaagg	caagtgattc	tcctgcattc	gcctccaaag	30840	
1968	tagctgaaat	tacaggcgc	caccaccaca	tctggctaat	ttttgtattt	tttagtagaaaa	30900	
1970	tggggtttca	ccatcttgg	cagctgtgtc	ttgaactct	gacccagg	gatccggcca	30960	
1972	cctcgtcctc	ctaaaggct	gggattacaa	gctgtgagcc	ccacacccag	cctacaaaaaa	31020	
1974	tctgaaaata	ttaaccggc	atagactgt	gcacctgt	tcccagct	ttgggaggct	31080	
1976	ttaggtggg	ggattgtt	agccaggag	gttggggct	cagttagct	tgattgcacc	31140	
1978	actgcgtca	gcctggaga	gtgagacctt	gtctccaaac	taaacaataa	acctgtgact	31200	
1980	tgtccccctc	tgcagggt	ttgttaact	ctgtcctgt	gctgccttgg	agtaataaac	31260	
1982	aataacagga	ctgccccat	aatggagtca	gctgtttgt	atctaggtca	gtgggtgtca	31320	
1984	aatggggttc	ccaggagccc	tggggttcca	gtgggtcccc	tcaaggacat	caggagaaac	31380	
E--> 1986	attaaggagg	ggagagccag	caatccctat	cccagcttc	atctaacc	ctca	31440	
1988	tctgatttgt	acattgggtt	tccctgaaat	ctagaaaaa	ctccaaaggc	ctcagaaaaca	31500	
1990	acatcttgc	tgtggaaagg	aggctagcag	cgtcaagt	gctctactc	cccatgggag	31560	
1992	caggtgcaga	gtcaacta	gtcattccat	gcccacagag	tggccatcc	cgaggtcccc	31620	
1994	ggtccaggca	gctcctgcct	gtgggggtgt	gagacticat	gttggcaggg	agcagagaga	31680	
1996	ccaccagagg	gcccagagg	cttggtcaat	agcagtctc	agcctcccc	aggagaaaaat	31740	
1998	atcagtggaa	aagggtccca	cttctgtgt	tgtcccaat	tgcattgt	gctgtcagat	31800	
2000	gtgtgtgtgt	tgtgtgtgt	aatgggtgt	gtgggtgt	tgtgagtgt	gtgtgtgtgt	31860	
2002	gtgtgtgt	tgtgtgtgt	gtgtgaagg	tgtgggtgt	tgtgtgtgt	gtgtgtgtgt	31920	
2004	gtgtgtgt	agtgggtgt	gtgtgtgt	tgtgtgaagg	gtgtgggtgt	gtgtgtgtgt	31980	
2006	tgggtgtgt	gtgagtgg	tgtgtgag	gtgtgtgt	gtgtgtgt	gtgtgtgtgt	32040	
2008	gtgaagggt	tgggtgtgt	tgggtgtgt	gtgagtgg	tgtgtcgt	gtgtgtgtgt	32100	
2010	tgtgtgtgt	cagtgtgtgt	gagtagtgt	tgtgagtgtt	gtgtgtgt	atgggtgtgt	32160	
2012	tatgtgagt	gtgtgtgtgt	gtgtgtgt	gtgtgtgt	gtgagtgg	tgtgtgtgt	32220	
2014	gtgtgtgtgg	tgtgtgtat	tgagtagt	gtgagtgg	atgtgtgt	gtgggtgtgt	32280	
2016	tgtgtgagt	gtgtgtgtgt	gtgtgagtgg	tgtgtcacat	gctctgc	tcatttttcc	32340	
2018	acacttcac	gggcattttt	gtgtgggtc	aggactggat	tcccttgaat	ggatgtggta	32400	
2020	tagttcc	gacccatttc	ttgttaat	gcatctc	agtcc	tttcttctt	32460	
2022	atcaatgt	cagtaaaaac	cttggagg	catctgtt	ccatcaga	tgctctgtac	32520	
2024	acattttccc	aattattcat	tgtgataaaa	cagacatag	ataaaat	ccactttaac	32580	
2026	ctttttttt	ttttttttt	aaacagagg	tcactctgtt	gcccagg	ctg gatgt	32640	
2028	gtgcgtatc	ggctcactc	aacctctgc	tcccggtt	aagcgatt	cctgtctc	32700	
2030	cctctgt	agccggact	acaggtgt	gccaccacac	cccgctt	ttttgtgtt	32760	
2032	ttagtggaga	tggggttca	ccatgttgc	caggctgg	tcaaaact	cac	32820	
2034	gatccac	ccttggc	ccaaagt	gggattac	gggtgag	ccacgcccc	32880	
2036	ccacgtt	ccat	ttttaa	gtatacag	ttttaaaat	ataatgtcgt	32940	

*see item 10  
in Exam  
summary sheet*

**Please Note:**

Use of n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is present in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

RAW SEQUENCE LISTING DATE: 05/18/2001  
 PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

Input Set : A:\M3-007PCT\_SEQ.txt  
 Output Set: N:\CRF3\05182001\I830706.raw

2038	gaaaccatca	ccactatcca	tgtctggAAC	tcttttcatc	catgttgtat	ctgcatttcc	33000	
2040	ttcttttaa	gactgagtaa	tattccattt	tacaggcaca	ccacatTTTt	tttatccatt	33060	
2042	catctgtca	tggacaccca	agtgcctct	gcttcttggc	tgttgtgagc	agtgtGCCG	33120	
2044	tgaacatagg	tgtgcaaaata	cctcttgaag	acctttca	gttTTggat	gcaaacccag	33180	
2046	aagtggatt	gctggatctt	atggtcttga	ggaacctcca	tcctgttccc	aacagcgccc	33240	
2048	acaccatctt	acatttcac	cagcagttca	ggaggactct	gggctccca	cattcctcgcc	33300	
2050	agtgcatgtt	gttttctgtt	tttctttt	taatttttat	tttttctttt	aaactgtttt	33360	
2052	cttgatgttt	tctgtttttt	tgacagtggc	catcctagtg	gctgtgaggt	ggtcttatac	33420	
2054	gctttacaag	gggagctgcc	cttccgtt	aacactttgt	gctgacagggc	caattccatg	33480	
2056	tgtactctgc	ctgcttccct	gtccttggta	actcaggcat	cagcttttg	ataagacaca	33540	
2058	aaacagaaaag	gagcctctcc	tccatcaccc	ctggcctggg	cagtgtcac	tgttacccat	33600	
2060	ggcgcacaca	ctctccgtag	agcagtca	gctacccacg	gcccacac	tctcctgaga	33660	
2062	gcccacac	ctaccacacgg	tgca	ccacccaca	ctctcctgag	agcagtca	gctacccacg	33720
2064	gcccacac	tctcctgaga	gcccacac	ctaccacacgg	cgcccacact	ctcctgagaa	33780	
2066	cggta	tccca	gcccacac	tcctgagagc	tgtca	tgtca	33840	
2068	ccca	cactct	cctgagagct	gtca	ccatgggt	gcccacact	tctgagagc	33900
2070	gttca	cttcc	accacac	cctgagagc	gtca	ccatggc	33960	
2072	ccacactc	ctgagagc	tcactgtca	ccacgg	gttca	tgagagcggt	34020	
2074	ca	cacgg	ccccc	acactctt	gagagcg	gttca	atgg	34080
2076	ca	cac	ttt	tgagagcggt	cactgtca	cacgg	gttca	34140
2078	actgtactc	atgg	ccacactc	tgagagcggt	cactgtatc	cacgg	34200	
2080	acactctt	gaggg	tgc	ccacccac	ctctc	agcgg	34260	
2082	gttca	ccacac	tctc	tgagagcggt	gttca	tgac	34320	
2084	ctctc	gag	ac	gttca	gttca	gagcgg	34380	
2086	tgta	ccacccac	ggc	ccacac	gttca	gttca	34440	
2088	tctc	tgaga	ccat	ccacac	ctctc	agcgg	34500	
2090	gttca	ccacac	tctc	tgaga	gttca	ccacac	34560	
2092	ctctc	tgaga	agcgg	ccacac	tctc	tgaga	34620	
2094	ctactc	ccacac	ccat	tgaga	ccat	tgaga	34680	
2096	tctc	tgaga	gccc	ccacac	ctcc	ccat	34740	
2098	tacttac	ccacac	ccat	tgaga	ccat	ccat	34800	
2100	cctg	tgaga	gttca	ccacac	ccat	tgaga	34860	
2102	tcac	ccacac	ccat	tgaga	ccat	tgaga	34920	
2104	ctg	ccacac	ccat	tgaga	ccat	tgaga	34980	
2106	cat	ccacac	ccat	tgaga	ccat	ccat	35040	
2108	agag	ccacac	ccat	tgaga	ccat	tgaga	35100	
2110	acgg	ccacac	ccat	tgaga	ccat	tgaga	35160	
2112	gagcc	ccacac	ccat	tgaga	ccat	tgaga	35220	
2114	gcgc	ccacac	ccat	tgaga	ccat	tgaga	35280	
2116	tgt	ccacac	ccat	tgaga	ccat	tgaga	35340	
2118	cgt	ccacac	ccat	tgaga	ccat	tgaga	35400	
2120	gttca	ccacac	ccat	tgaga	ccat	tgaga	35460	
2122	ttt	ccacac	ccat	tgaga	ccat	tgaga	35520	
2124	tgc	ccacac	ccat	tgaga	ccat	tgaga	35580	
2126	attac	ccacac	ccat	tgaga	ccat	tgaga	35640	
2128	tat	ccacac	ccat	tgaga	ccat	tgaga	35700	
2130	tgct	ccacac	ccat	tgaga	ccat	tgaga	35760	
2132	gttca	ccacac	ccat	tgaga	ccat	tgaga	35820	
2134	attt	ccacac	ccat	tgaga	ccat	tgaga	35880	

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 Output Set: N:\CRF3\05182001\I830706.raw

2136	ccatgtgtgc	tgcacaaatc	gccagcatgg	tccttgc	cttcacgtc	tggttttct	35940	
2138	cttctttat	ctcttcttac	cctccagctg	gtttgttat	taggatgt	atccctgtc	36000	
2140	gttgtgggt	cagattttct	cagcttctag	tgtctttaa	cttgtgtat	gtacaaatgg	36060	
2142	ttaagttt	tttaatgt	acttaaatct	tttacactt	gtggctttt	gattttattgc	36120	
2144	atgttcagaa	aggcctgccc	caccccaag	atttttttt	ttttttttt	agccctgtat	36180	
2146	tttcctttag	ggcgtccaca	agtcggattt	tcttttactt	ccttggctg	gtgcacttc	36240	
2148	ttctgcgggt	tggtggagat	gggtgcccgg	ggcccccagt	ccatatcga	ggcaactgttc	36300	
2150	tcactcggt	tcctgagttc	tgcgtgtcc	tctggttgtc	ttcacgtag	gcttctctgg	36360	
2152	gtggagtcg	gatccccctc	cagccccctgc	aggatgttt	gtctgtgga	ccttcaggga	36420	
2154	aatggcctt	gatgtctggc	agccccagga	tgtctgtgg	gccccctcgat	gtactggggt	36480	
2156	cttcgggtac	ggtaactgca	gcccagca	ttcaccaccc	tctttgtcc	tgttccccctc	36540	
2158	agaggctgccc	cgcttgggccc	tggggaggggg	gccccgtgt	ctgggtgtcc	tggccttgct	36600	
2160	gttcccttag	caagggtggct	ggggcttgggg	gagcgcicct	ctgcaaccct	gtgtctggggg	36660	
2162	cagctggctc	ggccggggaaag	acacagctcc	agatattttt	ttcagaaaaag	aaactgcagt	36720	
2164	gtttattttc	ttcagaaaaaa	aaacatttag	aagatttttt	ttaaagctct	ttcggtttaga	36780	
2166	aggaatctag	gtatgttatt	gtttaaagaaa	aaaagtgttt	gcaatgtatc	agtccaccgt	36840	
2168	ttcattctga	gcatgattt	tgtgaggaaa	tggtttttttt	aaaaattaag	ctggagatat	36900	
2170	atccctgtac	gatgtttctg	tgaaaatgcg	gtttttgtcc	ggcgctgtt	atgcaagttt	36960	
2172	taacagtgt	atatggggat	cagtgtttac	atgttacatt	cctctgtgc	agtcaaaata	37020	
2174	agccccgggg	gtctacagta	gcatttctgt	atttatcag	cttgggtctgg	ggctgagggg	37080	
2176	aggcctccac	tcacacttgg	aggggtgtt	tctgtccat	ttatgtccct	tataaatatt	37140	
2178	ccccatgttt	attttaactc	gcctttaaaa	tggagctgaa	attaatatgg	accggggggc	37200	
2180	tgtccccctg	gccccctgagt	gcctcccgta	gtcgggtgggg	acattttctac	ctggtccccat	37260	
2182	cctggaggcc	aggtgcgcaa	ctcacgtgc	ctggcatcac	agtgccttc	ctgcagtggg	37320	
2184	cactctgtcc	cctgtttggc	tcctccacca	aggaggtccc	ctgtccccct	ggcccccaggc	37380	
2186	cctcgggtgg	ctctgoggcg	tgacagaggg	ctccccctgc	cctctctact	acaggcacag	37440	
2188	gtgccacca	ggaactccctt	tcagcgcacg	tctgtgtggg	gccccactgccc	gggagctcca	37500	
2190	gatctggcga	gtgggtccca	cagtggggcc	tgggacccag	cctgcaaggt	cgtaaccatgc	37560	
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2198	actaaacagc	catatgtgg	caaaatgggg	ccatacctgt	tgaccagagt	gggctgagca	37800	
2200	cctgggttgc	aacctaggag	ggtgaggaag	acgtgcagaa	aactcagaaaa	actcctgaaa	37860	
2202	aagcagtgt	agcttgggg	tgggtgagca	ggacccttgc	gtgcacttggg	gtgggggggg	37920	
2204	ggacgttctg	gtgtccccac	tcccatagcc	acggccctggc	gcaaggact	gtccctccca	37980	
2206	tcttgggtgg	gaccctggga	aggactccag	gtcggctctt	gtccgcctc	tgccatgcag	38040	
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2210	aactgcaga	cagggttgaag	aagagaggag	gtttctgggg	aggtacagt	accctggca	38160	
2212	ggcagtggt	ccccctctgg	aacaatggcc	actgcaggga	ggcagggtgt	cgaggggggc	38220	
2214	cgtgacccca	aatgacttag	ctcagaggggg	gcatgcagcc	ttgcaaaacca	aaccttccat	38280	
2216	tccacagagc	aagccccccgg	caggtggagg	aatgtggaa	gcgaggatgg	tgagcccaca	38340	
2218	ccggggagct	cctttacaga	ggcaggca	gggggtcggg	atccaaatgc	agccaaggagg	38400	
2220	agccccggggc	ccagaggggc	ctggcaatta	agggggggca	aggagctgag	ctccaaactcc	38460	
2222	atccccacag	ccgcacaatc	ttccctgccc	ttccctgacct	ggagggtctgc	ctccacccggg	38520	
2224	aagccctccgc	acccggcagg	gacttggcc	ccgcccagtgt	gccttgc	tgcccttgc	38580	
2226	acacccacgg	ccctggggct	cgtttctcc	ctcagtgc	ggttttggag	ctcagggtccc	38640	
2228	ctaacccttccaa	tatagggaaat	tgtggccctt	ctattcttagt	cctcccttctt	gctgtgtctg	38700	
2230	tagtcccgct	ttctgc	aaag	caggctctg	agctggcaac	actggatgg	ggccgaggggc	38760
2232	gtgaatgaga	ccgcagcc	ctctcagg	tc	cgataacgg	agtactgttt	cccgaaaca	38820

RAW SEQUENCE LISTING DATE: 05/18/2001  
 PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

Input Set : A:\M3-007PCT\_SEQ.txt  
 Output Set: N:\CRF3\05182001\I830706.raw

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2236	tttacagagc	atggggccag	ccttcctgc	agctgccagg	ctggctcagg	ggctgaccag	38940
2238	cccacacact	gggcctggg	ggagggctg	cagccagcca	ggcgttcca	ccctctgagg	39000
2240	ctgttccacc	agcctgtgc	tgttgtct	cgcactctg	gggttccaag	aggcagagt	39060
2242	tttttataac	ttgggcttgt	ttaaggctgc	ctgtcagtgt	gtcatggaaa	gagcttttat	39120
2244	ttgacccta	ggaagtccgg	aagccagcca	ggtactgcga	tcattttct	cttccctaa	39180
2246	gcacaagagg	gaagaagata	aattttatct	tggagaagaac	cacagccatt	tggagaaaaa	39240
2248	tttaatttaa	gtggcacatt	ccgctgggt	gatggatgt	ccttgttgc	agcaataggg	39300
2250	agaccagctg	tcctcctggg	gcttggtaacc	agactgaaa	gcccctgcca	cctctctgtg	39360
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2256	ccagccaagc	cggggaaagga	ggccctcgta	gcaccccaag	ccctgtgt	cctccctggg	39540
2258	gcatctgcag	tttggcgccc	catctggat	ttccctgggt	ggcaggacct	ccaagggggc	39600
2260	aggtgcctcc	catgagactc	acttgtgt	agtattccct	ctggagagca	ggccttcaag	39660
2262	ctcaagaggc	agatggattg	ctcttaa	ctaggccttcg	tgggcctgaa	ttaatgttt	39720
2264	tgtttctgt	tcctcccccc	attccaattt	tgaacaagaa	agccgtccct	gtgatttaggc	39780
2266	tcatcctgca	gtagttatta	tgcctcttt	gaaaatgttt	gcacacaaa	aagcacagag	39840
2268	agctgagctg	ctgggatcac	atggaaaact	gatttttatt	tgttttgtt	tgttttgtt	39900
2270	agagacaggg	tctcactctg	tttcccgggc	tggagtgcag	cttactgcag	cctcaaaactc	39960
2272	ctaggctcaa	gtgatccctc	ttcctcagcc	tcccgagtag	ccgggactac	aggtgcatac	40020
2274	caccatgccc	cagtaattt	tttagttgt	agagatgggg	acaagctgt	ttgtctaggc	40080
2276	tggcttgaa	ctcccggt	caagcgtct	gtccacctt	gcctccca	gtgttggat	40140
2278	tgcacacatg	accacccgca	cccaacctt	gggttcttta	atgcagcggt	aagttgagtg	40200
2280	gttccagccc	cctacccca	ggtctgtga	gtgggtcccc	tgacttctgt	ggccagcacc	40260
2282	tctgacttcc	tgtggccagt	catgcttga	gttggttgt	gcaccaacgtt	cctgtctgtc	40320
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2292	gtcaataatc	cttgctcatg	acaacaagaa	gaggccaaa	atgacccctc	acacgagcga	40620
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2296	gaatatgccc	actgcaccca	cctccctcta	gctgtaccct	cagttgtgt	ttcagagct	40740
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2326	gctgggatta	caggcgtgag	ccaccgcacc	tggccataac	ttcataatctt	aaacaaaagc	41640
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2424	ggcttctgg	caggtgcgt	gtgtacagt	gccttcatct	gtgtctgggg	tacacacact	44580
2426	catgtggcca	gcaggacag	ctcccttagatt	ggagcaata	agattttctt	tttttagctt	44640
2428	aaaactcttc	aaggaaagt	ctccctgttaa	aatagaagtc	tggagttgtc	attgtggaga	44700

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 PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

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2434	gaggtggggag	gagccaggcc	tgtcatctcc	agactccca	tgccacccccc	aggctgactc	44880
2436	agagacgtgt	ccctccaccc	gtgtggccat	gtgttgtcc	atcctaaagc	tatggcacac	44940
2438	tcccatcatg	tccctcagtg	caaaccacc	gagccctgtg	gtagggacgc	agtgtctagg	45000
2440	aaggcctcag	agccttcaga	tgtggggagg	gtgagctggc	agtggacgga	ggaggaaagg	45060
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2444	gagggggcag	ggaccctgtg	tcctggacag	gctccatgtt	tctccctcag	agccctggat	45180
2446	gcccatgccc	tccaggcctc	tggaggggtg	caggagtat	gaacagcctg	tgccgcagcc	45240
2448	cctctgcagc	acagccagcc	ctgcccggcg	ggccagactc	ccacacacgc	catctagagc	45300
2450	cagctggcac	acccgcacag	gtgtcagagg	atgttagcag	tgactgttt	tctcctcttg	45360
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2662	ggccatccct	gaggcgttga	cacggatcg	aggcccctt	ttgatagtct	aacaccc	51720	
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2666	attgtgat	tgatatttt	tgaatgggg	ccaagatgaa	cattcatgga	gtcttecta	51840	
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2670	ctgagacagc	actgttggct	cagccctagc	tcatgggtt	gctaacacct	cacagaggcc	51960	
2672	aggccagagt	agcaggaggc	agcgcctgt	gttaccac	cagcctgg	ccccacgctt	52020	
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2684	tggctcatgc	ctgtatccc	aaacatttgg	aatgccaagg	tgggaggatc	attttagccc	52380	
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2688	taataataat	aataattgtt	ttttgtttgt	ttttgagacg	gtgtctagct	ctgttgc	52500	
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2706	cggcctaagg	ggtccctgtt	ggctgttgc	agtccacagca	agtggccaa	caggccc	53040	
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2718	ccacatgcct	catgagacag	tcgcagg	gcccacaggg	cctgtgtt	aagccgtg	53400	
2720	cgcctcgat	cgcccaccc	ccctggagcc	tccactccc	acacc	cctcagg	53460	
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RAW SEQUENCE LISTING DATE: 05/18/2001  
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2728 cgcatac tgcgtggc tggccgtccc cgtgtccctg tgtccatcg aataagatggg 53700  
2730 agtgaccat ggtgactgtg tgggtggttt ttgggttca gccttcctg gtcctccctt 53760  
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2740 gggccagcca cacatataca taggaagtga gcacgtccat ttgtacccgtt aattactatt 54060  
2742 tttttggcag aaggacaaac tttttggc ccatcagccc caattctgaa ccaagtccag 54120  
2744 tggcagcaa tgagaccac tttgttacca gcagagacat ctctgcgtg gcaggttgc 54180  
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 PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

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2828	tagccaagtt	ggtatgtttt	gactccctgcc	ccgggacagc	agctggagac	ttaagggttc	56700
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2832	cagctggttt	gtcccagcca	cgatgagcag	gggagctatg	cttttggc	aaaattgcct	56820
2834	tcgcccattgg	tggatcatcc	tgagccctgt	ggagccgaga	gcacctgggg	ttgggagggg	56880
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 PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/830,706

DATE: 05/18/2001  
TIME: 10:56:58

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Output Set: N:\CRF3\05182001\I830706.raw

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3026	caggcactca	cccttgagga	aaggggtttt	catcgagcaa	gcctgcttgc	ggggctgtct	62640
3028	ctggcagggt	gctgtggctc	cgggggtggcc	tggagggatg	cggggctct	gaaggcctgccc	62700
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3038	acaagtgtgc	tgggacatat	gttcctggca	ttttataatg	ttgtttttatg	tttcacaatg	63000
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3052	ctgtatgcctg	ctctgtgtct	gtgttttaeg	ggggtcccaag	gcctgggtgg	gacagggtct	63420
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3072	gcaagttac	tcaaggatt	gctctgggg	tcaagtaatg	cccgaggaaat	gcaggctgc	64020
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3086	ttcgggggtcc	cggggtaaa	ggaagccat	gaaaggctc	tgggtgggtt	gacaggggt	64440
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3102	cctatgcgc	gggtatgcgg	accgtggta	tccatccac	atgctctg	gaggtgtca	64920
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3106	cggccatccct	gcaggcc	gcacacgt	cggcc	cagctc	gagcc	65040
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3110	gccctggcca	tgggtccct	ccaggtgt	agcaaggct	cac	gcaccc	65160
3112	atgggtgc	catcctgt	aa	ccaggccaca	gcgg	gacag	65220
3114	ggcccaaa	ctccccgggg	gaccc	ccggc	ccacag	ttcccacaca	65280

RAW SEQUENCE LISTING DATE: 05/18/2001  
PATENT APPLICATION: US/09/830,706 TIME: 10:56:58

Input Set : A:\M3-007PCT\_SEQ.txt  
Output Set: N:\CRF3\05182001\I830706.raw

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3120	cagtccggaa	gctggcctcc	caccgaggcc	tcccaccaag	gcctgctcc	tgca	65460
3122	agcgcccgct	catttcccta	tctcccaagaa	ggtggagacg	ctgccc	tgtg	65520
3124	ctgcccagcc	tgccc	tcac	atctggttct	gttcc	cagc	65580
3126	ggggcatgtt	gttcatcg	ac	cttctgt	gggag	gaa	65640
3128	ctctgccc	gggatgc	tgcc	agagcc	cc	tcgt	65700
3130	ccggcctgg	ctgcagg	ggggccggg	cagg	gtggc	cctc	65760
3132	cccac	ctggg	gcac	ccccat	ggctgtc	cc	65820
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3136	gtggacaggc	tctagg	gt	catggc	gagg	ggct	65940
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3140	ataaacaa	ggc	atcc	tttgc	ggaa	actctt	66060
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3144	ccctgt	gac	cat	ccctgt	gggtt	tattt	66180
3146	tccctt	gggg	gtcc	cttgggt	gtggc	atgg	66240
3148	gtggc	gtacc	tgt	gtc	agg	atg	66300
3150	ggc	ctcaacc	ct	ctc	cc	gtg	66360
3152	gggtggcc	cc	tgt	ccccac	agg	ggact	66420
3154	ttcagc	ttt	ggc	ccgg	ccccca	ggct	66480
3156	gtggaa	ac	cc	ctgt	gggg	atgt	66540
3158	aaagagg	gt	ttt	tctg	gggg	caat	66566

VERIFICATION SUMMARY DATE: 05/18/2001  
PATENT APPLICATION: US/09/830,706 TIME: 10:56:59

Input Set : A:\M3-007PCT\_SEQ.txt  
Output Set: N:\CRF3\05182001\I830706.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:291 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:291 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:291 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:548 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4  
L:548 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:548 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:549 M:252 E: No. of Seq. differs, <211>LENGTH:Input:492 Found:494 SEQ:4  
L:1986 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:37